

Attorney Docket No.: 01-791 71767

Amendment dated August 8, 2006 Reply to Office action of May 17, 2006

Application No. 10/099,815

Attorney Ref.: VTA03-29

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AUG 08 2006**AMENDMENTS TO THE CLAIMS**

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of time division multiplexing for a forward data packet channel comprising:
 - encoding parallel data sub-packets into parallel streams of turbo codes;
 - interleaving each of the parallel streams of turbo codes to generate parallel streams of quasi-complementary turbo codes;
 - modulating the parallel streams of quasi-complementary turbo codes to generate parallel streams of modulated data symbols; and
 - multiplexing the parallel streams of modulated data symbols by ~~one of~~ multiplexing and non-complete puncturing to generate a single stream of modulation symbols, wherein the non-complete puncturing punctures a first set of data sub-packets into a second set of data sub-packets without occupying payload of the second set of data sub-packets.
2. (Original) The method of Claim 1 further comprising demultiplexing the single stream of modulation symbols into multiple in-phase and quadrature data streams.
3. (Original) The method of Claim 2 further comprising covering each of the multiple in-phase and quadrature data streams with a distinct Walsh code to generate parallel

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streams of Walsh-covered symbols.

4. (Original) The method of Claim 3 further comprising summing the parallel streams of Walsh-covered symbols to generate a single in-phase and quadrature sample stream pair.

5. (Original) The method of Claim 1 wherein the modulation is one of quadrature phase shift keying, 8-phase shift keying, and 16-quadrature amplitude modulation.

6. (Currently Amended) A forward data packet channel comprising:

means for encoding parallel data sub-packets into parallel streams of turbo codes;

means for interleaving each of the parallel streams of turbo codes to generate parallel streams of quasi-complementary turbo codes;

means for modulating the parallel streams of quasi-complementary turbo codes to generate parallel streams of modulated data symbols; and

means for combining the parallel streams of modulated data symbols by ~~one of~~ multiplexing and non-complete puncturing to generate a signal stream of modulation symbols, wherein the non-complete puncturing punctures a first set of data sub-packets into a second set of data sub-packets without occupying payload of the second set of data sub-packets.

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Application No. 10/099,815

7. (Original) The system of Claim 6 further comprising means for demultiplexing the single stream of modulation symbols into multiple in-phase and quadrature sample streams.

8. (Original) The system of Claim 7 further comprising means for covering the multiple in-phase and quadrature sample streams with a separate Walsh function to generate parallel streams of Walsh-covered symbols.

9. (Original) The system of Claim 8 further comprising means for summing the parallel streams of Walsh-covered symbols to generate a single in-phase and quadrature sample stream pair.

10. (Original) The system of Claim 9 wherein the means for modulating comprises one of quadrature phase shift keying, 8-phase shift keying, and 16-quadrature amplitude modulation.

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